

# CDC ReportStream Reusable Components

## Background

CDC ReportStream team has unique knowledge on data engineering and management, specifically in HIE x Receivers; health data partner onboarding; and interoperability including FHIR translations.

We want to shape this knowledge for future use. One outcome is for two - 3 to 4 minute video tutorials and/or "mapped demos" that can be reused for internal "cascading context" and externally in capture activities like mapped demos.

## Goals

There are 2 goals:

1. An index of priority knowledge that includes schematics, presentation of working software, demos, and screenshots of key achievements.
2. Use this material to craft content for the two 3 to 4 minute videos.

## What is the definition of done?

- Objective 1 -
  - Complete repo indexed in this doc.
  - Components indexed are stored with doc in [G folder](#) and clickable.
- Objective 2
  - Record videos that consolidate key pieces of functionality.
    - Matt and Kimberly have mined content.
    - [Victor's video on interop and FHIR specialization.](#) (4.5 minutes) - **complete**
      - [Slide deck](#) without recording

## Key pieces logged in Index

May 2025 Architecture Schematic is [here](#).

- [Infrastructure schematic](#) last updated 3.2.26 by Senior DevSecOps (KP)
- No microservices completed in the technical definition.
  - Was supposed to be authorization and submission history.
  - Screen shot of what was planned is
    - ▢ 06a ReportStream Microservices excerpted image
- Stretch microservices: UI portal had daily databoard and authentication activities - which are “quasi” microservices.

Power BI screenshots

[Results send](#)

[Results received](#)

## TLDR

### References of G drive (not prioritized; helpful but not vital)

1. [Chris onboarding and self service tools](#).
  - a. ▢ ReportStream Technical Deep Dive
  - b. Slide 38
  - c. REcording is [here](#) at 19:51 where funnel picks up
2. REportStream Deep Dive [Brick covered](#) user onboarding to RS/data platform. See 15:00
3. 📺 Flexion ETOR Validation Discovery.mp4 Data moving through integrated systems - text heavy and conversation
4. 📺 FHIR-questionnaire-prelim-sprint-readout.mp4 Form flexibility for state users- anything here of value?
  - a. Suzi OConnor 37 ish
5. 📺 GMT20230808-161850\_Recording\_Brick Green.mp4 Brick and Validation FHIR bundles, etc.
6. 📺 HL7v2 to FHIR library.mp4 Point Click Care CDC FHIR COP
  - ▢ Leap\_Orbit\_FHIR\_Queries\_CDC HL7® FHIR® Community of Practice 4-1...
7. [Arnej delivered](#) this instruction covering HIE x RS ORM HL7v2 message ingestion. See 49:00 to 53:13
  - a. integration meetings
  - b. Needs rework if used
8. 📺 HL7-FHIR Conversion-Translation.mp4
  - a. Jimmy Fagan with Arch Schematic HL7 to FHIR in ELIMS

## 9. Chris user site overview

📺 07 Reportstream\_User Site overview.mp4

- a. great artifact by Chris covers
- b. 2:12 minutes long
- c. Soundless- where is the version with sound?



2023 - old but somewhat useful

## 1. ReportStream Deep Dive

REcording is [here](#)

- a. Deck is here for reference. 📺 ReportStream Technical Deep Dive
- b. [Matt's summary is here. \(READ THIS\)](#)
- c. 44:38 to 49:10: Section 1 Overview: Carlos' valuable high level overview. Total time = 40 seconds
- d. 57:52 to 58:51: Section 2 Why we use FHIR Carlos explains "why use FHIR", which is valuable, but possibly out of scope. Total time = 60 seconds
- e. 1:00:52 to 1:03:04: Section 3 Interoperability "guts" - he shows what may be the culprit in 'interoperability' - how data is made accessible to STLTs to meet them where they are. Total time = 130 seconds
- f. Note between 49:10 to 57:52 content dives into each step in the pipeline, which is a deep-dive, good info but candidate to cut out for shorter content.

## 2. Chris' website. front end tutorial.

**Note:** this value is anchored in direct to consumer applications as the automated data delivery reduced the need for users to log into the user-account interface.

Chris' video summarized by AI:

The video details tools and features designed to improve user experience on a data reporting platform.

### ● Platform Structure:

- The platform includes a public website with FAQs and resources.
- Authenticated pages, accessed via Okta, provide services to senders, receivers, and support teams.

- These authenticated pages offer admin tools, data visualization, and self-service features.
  - The web experience team acts as a bridge, facilitating communication between the engagement side and the database.
  - An API connects the database to these tools and features.
- **Onboarding Enhancements:**
    - Efforts are focused on increasing the throughput of onboarding new senders by solving bottlenecks in validating test data and public keys.
    - The "public data validator" feature allows senders to validate their data files without extensive email exchanges with engineers.
    - This feature is a public webpage where users upload files to be checked against a schema, returning errors and warnings until success is reached.
    - A "public key tool" allows senders to upload and change their own public keys for security, eliminating the need to send files to engineers.
- **Data Visibility and Support:**
    - A redesigned "message search feature" assists engagement and support teams in handling support requests.
    - A "stilt dashboard" is being built to provide users with data visibility, showing what data was received, when, and from whom.

10. ReportStream founders- Hawes, Duff and Reeves

 CFA ReportStream Talk.mp4 (poor quality reporting)

## TLDR

### How are reusable short videos useful?

1. Evaluate if there are components useful for Strata - templates, infra and FE applications, but the onboarding may be useful and could be vetted with TSS.
2. This is a takeaway to increase internal knowledge and can be reused as a tutorial and as a mapped demo for BD capture in pitches or tech challenges.